

# PATENT SPECIFICATION

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DRAWINGS ATTACHED.



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## COMPLETE SPECIFICATION.

### Improvements in or relating to Polishing Devices.

I, WILLIAM ARTHUR EVANS, a British Subject, of St. Michael's Cottage, Priory Lane, Bishops Cleeve, Cheltenham, Gloucestershire, do hereby declare the invention, for which I pray that a patent may be granted to me, and the method by which it is to be performed, to be particularly described in and by the following statement:—

This invention relates to polishing devices such as are employed for applying polish to the floor of a room, for example, and for subsequently polishing such floor.

The invention has for its object to provide a device by which polish can be quickly and easily applied, and subsequent polishing operation performed without the user of the device stooping or kneeling during these operations.

According to this invention a polishing device comprises an elongated handle member and a plate like polishing head secured substantially at its centre to one end of the handle member by a hinge incorporating adjustable friction means to enable the degree of freedom of angular movement between the polishing head and the handle member to be adjusted at will, said polishing head having a groove formed in its peripheral edge to retain in position a flexible element by means of which a sheet of fabric placed over the flat surface of the polishing head remote from the hinge can be secured in position.

Preferably said hinge comprises two U-shaped stirrup members between the corresponding limbs of which friction washers are interposed, screw and nut means being passed through the friction washers and matching holes formed in the stirrup members. Advantageously the flat surface of the polishing head remote from the hinge, which forms the operating surface of the head,

may have a cushion of resilient material affixed thereto over which a sheet of fabric may be drawn, such sheet providing an expendable and readily replaceable polish applying and/or polishing surface.

A preferred embodiment of the invention will now be described, by way of example, with reference to the accompanying drawings, in which:—

Figure 1 is a broken perspective view of the device; and

Figure 2 is a sectional view on the line II—II of Figure 1.

Referring to the drawings the polishing device 10, shown therein comprises a plate-like polishing head 11, of wood or plastic material which is triangular in plan form.

Centrally arranged on the upper surface 12 of the polishing head 11 is an upstanding U-shaped stirrup 13, between the limbs 14, 14 of which a further U-shaped stirrup 15, having upwardly projecting limbs 16, 16, is pivotally mounted, the two stirrups being pivotally connected to each by a transversely arranged bolt 17, which lies parallel to one edge of the polishing head and passes through aligned holes in the limbs of the stirrups.

The bolt 17 is retained in position by a wing nut 18, and friction means in the form of fibre washers 19, 19 are interposed between the corresponding limbs of the stirrups 13, 15 so that when the wing nut is tightened the degree of freedom of angular movement between the stirrups, which form the aforesaid hinge, can be varied at will. Between the limbs 16, 16 of the further stirrup 15, one end 20 of an elongated handle member 21 of wood is secured by screws 22, 22 passing through the limbs 16, 16 of the stirrup.

Around the periphery of the polishing head 11, a U-shaped groove 23, Figure 2,

is formed to accept an endless loop 24, of elastic material such as rubber or spring belting.

5 A resilient cushion 25, of felt is secured to the lower surface of the polishing head.

When the device is to be employed a sheet of fabric 26, for example a duster, is placed over the cushion 25, and drawn upwardly around the periphery of the polishing head 11, the elastic loop 24 being then slid over the duster so that the loop lies in the groove 23, and draws the duster tightly over the cushion.

15 It will be appreciated that fitting and replacement of the duster 26, can be effected rapidly and easily so that, if desired, one duster can be employed to apply polish to a floor for example, and a further duster for polishing purposes.

#### 20 WHAT I CLAIM IS:—

1. A polishing device comprising an elongated handle member and a plate like polishing head secured substantially at its centre to one end of the handle member by  
25 a hinge incorporating adjustable friction means to enable the degree of freedom of

angular movement between the polishing head and the handle member to be adjusted at will, said polishing head having a groove formed in its peripheral edge to retain in position a flexible element by means of which a sheet of fabric placed over the flat surface of the polishing head remote from the hinge can be secured in position. 30

2. A polishing device according to Claim 1 wherein said hinge comprises two U-shaped stirrup members between the corresponding limbs of which friction washers are interposed, screw and nut means being passed through the friction washers and the matching holes formed in the stirrup members. 35

3. A polishing device according to Claim 1 or 2, wherein said friction washers are formed from fibre or like material. 40

4. A polishing device according to any of the preceding claims wherein a cushion of resilient material is affixed to the surface of the polishing head remote from the hinge. 45

5. A polishing device constructed and arranged substantially as herein described with reference to the accompanying drawings. 50

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#### PROVISIONAL SPECIFICATION.

#### Improvements in or relating to Polishing Devices.

I, WILLIAM ARTHUR EVANS, a British Subject, of St. Michael's Cottage, Priory Lane, Bishops Cleeve, Cheltenham, Gloucestershire, do hereby declare this invention to be described in the following statement:—

This invention relates to polishing devices such as are employed for applying polish to the floor of a room, for example, and for subsequently polishing such floor. 60

The invention has for its object to provide a device by which polish can be quickly and easily applied, and the subsequent polishing operation performed, without the user of the device stooping or kneeling during these operations. 65

According to this invention a polishing device comprises an elongated handle member and a plate-like polishing head hingedly secured at its centre to one end of the handle member, and having a groove formed in its periphery. 70

The groove is adapted to receive a flexible element by means of which a sheet of fabric placed over the flat surface of the polishing head on the side remote from the hinge, and a free edge of which extending around said periphery, is secured in position on the polishing head. 75

80 Preferably said groove extends completely around the periphery and the flexible ele-

ment comprises a closed loop of elastic material which is passed over the fabric sheet to draw it tightly into the groove. Advantageously the hinge by which the polishing head is secured to the handle member incorporates adjustable friction means to enable the degree of freedom of angular movement between the polishing head and the handle member to be adjusted at will. 85

If desired said flat surface of polishing head, which forms the operative surface thereof, has a cushion of resilient material such as felt or rubber affixed thereto, over which the fabric is drawn, such sheet providing an expendable and readily replaceable polish applying and polishing surface. 90

The polishing head is preferably of substantially equilateral shape when viewed in plan, to enable the device to enter the corners of a room, and the axis of the hinge is arranged to lie parallel to one side of the polishing head. 95

In a preferred embodiment of the invention the polishing device comprises a plate-like polishing head of wood which is triangular in plan form. 105

Centrally arranged on the upper surface of the polishing head is an upstanding U-shaped stirrup, between the limbs of which a further U-shaped stirrup is pivotally mounted, the two stirrups being pivotally 110

connected to each by a transversely arranged bolt which lies parallel to one edge of the polishing head and passes through aligned holes in the arms of the stirrups.

5 The bolt is retained in position by a wing nut and friction means in the form of fibre washers are interposed between the corresponding arms of the stirrups so that, when the wing nut is tightened, the degree of freedom of angular movement between the stirrups, which form the aforesaid hinge, can be varied at will.

10 Between the arms of the further stirrup one end of an elongated member of wood is secured by screws passing through the arms of the stirrup.

15 Around the periphery of the polishing head a V-shaped groove is formed to accept

an endless loop of elastic material such as rubber or spring belting.

A resilient cushion of felt is secured to the lower surface of the polishing head. When the device is to be employed a sheet of fabric, for example a duster, is placed over the cushion and drawn upwardly around the periphery of the polishing head, the elastic loop being then slid over the duster so that the loop lies in the groove and draws the duster tightly over the cushion.

It will be appreciated that fitting and replacement of the duster can be effected rapidly and easily so that, if desired, one duster can be employed to apply polish to a floor, for example, and a further duster for polishing purposes.

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